

# C-7070 COMPACT DISC PLAYER



DIDRC 192 kHz/24-bit MP3 WMA USB RI Made for iPod iPhone



## New CD Player Takes it to the Next Level

It's difficult to imagine how you could improve the humble CD player, but Onkyo's engineering team had plenty of inspiration. For 2011, the C-7070 is an extremely versatile and sophisticated piece of audio equipment. The unit is strengthened with vibration-damping legs, a 1.6 mm thick flat-base chassis, an aluminum CD tray with silent mechanism, a full-floating circuit board, and a handsome aluminum front panel. In addition, the electrical system benefits from a precision clock, a pair of Wolfson® 192 kHz/24-bit DACs—one for each channel—and Onkyo's DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry). These improvements all but eliminate noise from the source, meaning your music will sound clearer than ever. Naturally, the C-7070 plays audio discs or CD-R/CD-RWs and your favorite MP3/WMA compilation CDs. It also connects to your iPod/iPhone via the USB port, and plays music straight off a USB thumb drive. The three-stage dimmer function, gold-plated audio terminals, and headphone amplifier differential circuitry offer further evidence of Onkyo's attention to detail. All this adds up to a player that, like your CD collection, will be around for a long time to come.

### PLAYER FEATURES

- Plays Audio CD, CD-R, CD-RW, MP3 (CD-R, CD-RW) and WMA (CD-R, CD-RW)\*
- DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry)
- Precision Clock for Optimal Timing of Digital Signals ( $\pm 10$  ppm)
- Separate Wolfson® 192 kHz/24-Bit DACs (WM8742 x 2) for L/R Channels
- Silent Disc Mechanism with Solid Die-Cast Aluminum Tray

- Floating Circuit Board Construction
- 1.6 mm-Thick Anti-Vibration Full-Flat Chassis
- Solid Aluminum Front Panel
- Direct Digital Connection of iPod/iPhone via Front-Panel USB Port
- Independent Headphone Amplifier
- 25-Track Memory Playback
- Random and Repeat Playback Function

\*Discs should be properly finalized.

### OTHER FEATURES

- 2 Digital Outputs (Optical and Coaxial)
- Analog Audio Output
- Handles Playback of Mass Storage Class USB Memory
- Machined, Gold-Plated Audio Terminals
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- Auto Standby Function
- RI (Remote Interactive) Remote Control



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## DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry)

Since the advent of digital audio, signal-to-noise ratios have improved dramatically. However, the S/N ratio reflects static noise only, and takes no account of another type of noise that occurs as the byproduct of sound reproduction—dynamic noise. To reduce this type of noise, Onkyo has developed DIDRC technology for use in our hi-fi components. Despite being beyond the normal range of human hearing, frequencies above 100 kHz are susceptible to clock pulse and other forms of distortion from digital devices. Such distortion in the super-high-frequency range can generate "beat interference", which in turn affects the character or atmosphere of the original sound. By improving linearity and reducing distortion in the super-high-frequency range, Onkyo's DIDRC technology effectively reduces perceptible noise and delivers clearer-than-ever audio.

## Precision Clock

The C-7070 boasts a precise clocking mechanism that controls and coordinates the timing of all digital signal processes—rather like how a conductor directs and coordinates the individual instruments of an orchestra. The C-7070 uses a state-of-the-art crystal oscillator that achieves a frequency deviation of  $\pm 10$  ppm—much lower than with a conventional oscillator.

## Separate Wolfson® 192 kHz/24-Bit DACs for L/R Channels

High-quality Wolfson digital-to-analog converters work to optimize analog audio performance on the C-7070. The player incorporates two 24-bit WM8742 DACs. Although these DACs can process two-channel audio on a single chip, Onkyo employs separate chips for each stereo channel, to ensure the most accurate digital-to-analog conversion.

## Silent Disc Mechanism with Die-Cast Tray

Affixed to four supports made of rigid machined brass, the C-7070's CD drive provides excellent resistance to internal vibrations. Furthermore, the disc tray is precision-engineered from high-rigidity, die-cast aluminum. Thanks to these advanced design features, the disc mechanism offers smooth and silent operation.

## Fully Flat Anti-Vibration Chassis

When it comes to parts and construction, it's not in Onkyo's DNA to cut any corners. The C-7070 is no exception. Build quality starts from the ground up with a highly rigid, 1.6 mm-thick, fully flat chassis that provides excellent protection against shelf-borne vibrations.

## Floating Circuit Board Construction

Rather than being directly connected to the chassis, the main circuit board inside the C-7070 is now "floating" to protect it from sources of vibration. This method of construction prevents vibration from the chassis and CD drive mechanism from adversely affecting the circuit boards or creating signal interference. Which adds up to longer life and cleaner audio.

## SPECIFICATIONS

Frequency Response	2 Hz–20 kHz
THD (Total Harmonic Distortion)	0.0025%
Signal-to-Noise Ratio	116 dB
Audio Dynamic Range	100 dB
Audio Output/Impedance	
Optical	-22.5 dBm
Coaxial	0.5 Vp-p/75 $\Omega$
Analog	2 V (rms)/400 $\Omega$
<b>General</b>	
Power Supply	AC 230 V~, 50 Hz
Power Consumption	23 W
Dimensions (W x H x D)	435 x 101 x 306 mm
Weight	6.4 kg
<b>CARTON</b>	
Dimensions (W x H x D)	564 x 200 x 413 mm
Weight	8.6 kg
<b>Supplied Accessories</b>	
Instruction manual RCA audio cable Remote controller	
AAA (R03) batteries x 2	



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Onkyo Sound & Vision Corporation 2-1 Nishin-cho, Nayagawa-shi, Osaka 572-8540, JAPAN <http://www.onkyo.com/>  
Onkyo Europe Electronics GmbH Liegnitzerstrasse 6, 82194 Grobenzell, GERMANY Tel: 49-8142-4401-0 Fax: 49-8142-4401-555 <http://www.eu.onkyo.com/>  
Onkyo Europe Electronics GmbH (UK Branch) The Coach House, 81A High Street, Marlow, Buckinghamshire SL7 1AB, UNITED KINGDOM Tel: +44(0)1628-473350 Fax: +44(0)1628-401700  
<http://www.onkyo.co.uk/>